

GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: June 13, 2003, 10:12:58 ; Search time 62.5634 Seconds

(without alignments)  
3215.615 Million cell updates/sec

Title: US-09-581-500B-12

Perfect score: 656  
Sequence: 1 gccacaacaacaaatgaat.....ccaccgcgagacccgcga 656

Scoring table: IDENTITY-NUC

Gapop 10.0, Gapext 1.0

Searched: 441362 seqs, 153318381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%  
Listing first 45 summaries

Database:

Issued\_Patents\_NA:\*  
1: /cgn2\_6/ptodata/1/ina/5A.COMB.seq:\*  
2: /cgn2\_6/ptodata/1/ina/5B.COMB.seq:\*  
3: /cgn2\_6/ptodata/1/ina/6A.COMB.seq:\*  
4: /cgn2\_6/ptodata/1/ina/6B.COMB.seq:\*  
5: /cgn2\_6/ptodata/1/ina/PTUS.COMB.seq:\*  
6: /cgn2\_6/ptodata/1/ina/Backfile1.seq:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	73.4	11.2	1425	1	US-08-464-148-1
2	73.4	11.2	1425	1	US-08-385-500-1
3	73.4	11.2	1425	1	US-08-846-784-1
4	72	11.0	1218	1	US-08-232-463-14
5	49.4	7.5	1104	4	US-09-009-816-1
6	46.4	7.1	286	2	US-08-332-766A-6
7	46	7.0	3563	4	US-09-041-886-20
8	46	7.0	3566	4	US-08-779-801-5
9	46	7.0	3566	4	US-09-298-441-5
10	46	7.0	3632	2	US-08-779-801-3
11	46	7.0	3632	4	US-08-531-927B-3
12	45.8	7.0	325	4	US-08-249-585A-2
13	45.4	6.9	1926	4	US-08-249-585A-2
14	45.4	6.9	2580	4	US-09-050-863-2
15	45.4	6.9	2580	4	US-09-359-081-2
16	45.4	6.9	5452	2	US-09-130-114-1
17	45.4	6.9	9600	4	US-08-910-647-1
18	45.4	6.9	9600	4	US-08-620-925-1
19	45.4	6.9	10596	1	US-07-884-811-15
20	45.4	6.9	10596	1	US-07-885-971-15
21	45.4	6.9	10596	1	US-08-087-783A-15
22	45.4	6.9	10596	1	US-08-194-088B-15
23	45.4	6.9	10596	2	US-08-194-087-15
24	45.4	6.9	10596	5	PCT-US93-04648-15
25	44.6	6.8	1028	4	US-08-118-200-1
26	44.6	6.8	1028	4	US-08-458-745-1
27	44.4	6.8	4488	4	US-08-406-030A-3

28	44.2	6.7	2056	4	US-09-334-601-12	Sequence 12, Appl
29	43.6	6.6	4362	2	US-08-455-073A-1	Sequence 1, Appl
30	43.6	6.6	7808	2	US-08-149-097D-22	Sequence 22, Appl
31	43.6	6.6	7808	3	US-08-949-386-22	Sequence 22, Appl
32	43.6	6.6	7808	3	US-08-450-562-22	Sequence 22, Appl
33	43.6	6.6	7808	4	US-08-984-709A-22	Sequence 22, Appl
34	43.6	6.6	7808	4	US-08-450-272-22	Sequence 22, Appl
35	43	6.6	670	4	US-09-009-816-3	Sequence 3, Appl
36	42.6	6.5	300	4	US-09-135-994-3	Sequence 3, Appl
37	42.2	6.4	477	4	US-09-135-994-1	Sequence 1, Appl
38	42.2	6.4	2115	2	US-08-474-379C-60	Sequence 60, Appl
39	42.2	6.4	2115	3	US-09-146-248A-60	Sequence 60, Appl
40	42.2	6.4	2115	3	US-08-206-188B-60	Sequence 13, Appl
41	42.2	6.4	2770	4	US-09-008-697A-13	Patent No. 5196516
42	42.2	6.4	4897	6	5196516-7	Sequence 3, Appl
43	42	6.4	9972	3	US-08-836-022A-3	Sequence 3, Appl
44	42	6.4	9972	4	US-09-427-048A-3	Sequence 2, Appl
45	42	6.4	53526	3	US-08-658-136-2	

#### ALIGNMENTS

RESULT 1  
US-08-464-148-1  
; Sequence 1, Application US/08464148  
; Patent No. 5710026  
; GENERAL INFORMATION:  
; APPLICANT: Sprecher, Cindy A.  
; TITLE OF INVENTION: CYTOPLASMIC ANTIPROTEINASE-2 AND  
; NUMBER OF INVENTION: CYTOPLASMIC ANTIPROTEINASE-3 AND CODING SEQUENCES.  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend Kourie and Crew  
; STREET: Stewart Street Tower, One Market Plaza  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: US  
; ZIP: 94105-1493  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patentin Release, #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/464,148  
; FILING DATE: 05-JUN-1995  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/385,500  
; FILING DATE: 08-FEB-1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Parmelee, Steven W.  
; REGISTRATION NUMBER: 31,990  
; REFERENCE/DOCKET NUMBER: 13952-21  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (206) 467-9600  
; TELEFAX: (415) 543-5043  
; INFORMATION FOR SEQ ID NO: 1:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1425 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: cDNA  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: 92..1213  
; OTHER INFORMATION: /product= "CYTOPLASMIC  
; OTHER INFORMATION: ANTIPROTEINASE-2 PROTEIN"  
; US-08-464-148-1  
Query Match 11.2%, Score 73.4, DB 1, Length 1425;



CITY: Alexandria  
STATE: VA  
COUNTRY: USA  
ZIP: 22113-0299  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
OPERATING SYSTEM: IBM PC compatible  
SOFTWARE: Patent Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/232,463  
FILING DATE:  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US/07/935,313  
FILING DATE:  
APPLICATION NUMBER: EP 91 114 300.6  
FILING DATE: 26-AUG-1991  
ATTORNEY/AGENT INFORMATION:  
NAME: BENT, Stephen A.  
REGISTRATION NUMBER: 29,768  
REFERENCE/DOCKET NUMBER: 30472/114 IMM  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (703)836-9300  
TELEFAX: (703)683-4109  
TELEX: 899149  
INFORMATION FOR SEQ ID NO: 14:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 7218 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
IMMEDIATE SOURCE:  
CLONE: PTzpt-F15  
US-08-232-463-14

Query Match 11.0%; Score 72; DB 1; Length 7218;  
Best Local Similarity 3.8%; Pred. No. 7.6e-10;  
Matches 15; Conservative 234; Mismatches 142; Indels 0; Gaps 0;

QY 248 AAGATCAGGATTCACACAGCCAGCATCGAGTCTGTGATCTGCGGAG 307  
DB 1425 RRR 1366  
QY 308 CCTGGCCATCATCAGCGAGCGAGCATCTCAAGAGGAGATGATCAAGACA 367  
DB 1365 RRR 1306  
QY 368 GCGCGCGCGCGCGCGCGCGAGCAGCAGCAGCAGCAGGAGTGGGCGCTTCCAGGTA 427  
DB 1305 RRR 1246  
QY 428 CCGGCGGCGGAGCAGCAGAGTGCCAGGTTCCGCGGAGGCCACTCTTCCGTGAGT 487  
DB 1245 RRR 1186  
QY 488 GCGTGAGAGGAGGAGGAGGAGGAGCGCAGCAGAGATCAGCAGGAGGAGCGGCG 547  
DB 1185 RRR 1126  
QY 548 AGGACTANGAGATGACGCGGAGGCGCGCGGAGAAAGAAANTCTCGGGCTGTGGGG 607  
DB 1125 RRR 1066  
QY 608 TCNCCCTGGCACCAGCCGCGGAGTCCCAAGCC 638  
DB 1065 TCGCAAGCTCCCTCGACCTCGACGACCAAGCTC 1035

RESULT 5  
US-09-009-816-1/c  
Sequence 1, Application US/09009816  
Patent No. 6436667

GENERAL INFORMATION:  
APPLICANT: German, Michael  
APPLICANT: Permutt, M. Alan  
APPLICANT: Inoue, Hiroshi  
TITLE OF INVENTION: Human Nkx-6.1 Polypeptide-Encoding  
TITLE OF INVENTION: Nucleotide Sequences  
NUMBER OF SEQUENCES: 21  
CORRESPONDENCE ADDRESS:  
ADDRESS: Bozicevic & Reed, LLP  
STREET: 285 Hamilton Ave, Suite 200  
CITY: Palo Alto  
STATE: CA  
COUNTRY: USA  
ZIP: 94301  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ for Windows Version 2.0  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/009,816  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER:  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Francis, Carol L.  
REGISTRATION NUMBER: 36,513  
REFERENCE/DOCKET NUMBER: 9076/082C1P2  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 650-327-3400  
TELEFAX: 650-327-3231  
TELEX:  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1104 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
FEATURE:  
NAME/KEY: Coding Sequence  
LOCATION: 1...1101  
OTHER INFORMATION:

Query Match 7.5%; Score 49.4; DB 4; Length 1104;  
Best Local Similarity 50.9%; Pred. No. 0.00041;  
Matches 113; Conservative 1; Mismatches 108; Indels 0; Gaps 0;

QY 361 AGCAGCAGCGCGCGCGCGCGCGCAGCAGCAGCAGCAGAGGTGGGCGCTTGG 420  
DB 426 AGCGCGGCGGCGGCGGCGAGAGCGAGAGCGAGCAGAGAAAGAGAGAGAGA 367  
QY 421 CCAAGTACCGGGGCGGCGAGCAGAGGTGCCAGGTTCCCGCGGAGGCCACTTTC 480  
DB 366 ACCGGAACCGGAGCGGAGGAGCAGAGGCGGCCCGCGAGCCACGCGCATGAGGCGCGCT 307  
QY 481 CTGAGTGGGTGAGAGAGAGGAGAGAGAGGAGAGGCGCAGAGCGAGGATCAGAGGCGA 540  
DB 306 CAGGATATTGTGATGCGGTGGGTGGGTGGGCGAGAGACTGTGCGGAGGAGCTGCGCGAG 247  
QY 541 GCGCGCAGAGACTANGAGATGACGCGGAGCGGAGCGCGGAG 582  
DB 246 GAGTAGAGCCCGCCCGGTGGCGGCGGCGCTTCAAGCCGCGCTGG 205

RESULT 6  
US-08-332-766A-6  
Sequence 6, Application US/08332766A  
Patent No. 5813647  
GENERAL INFORMATION:  
APPLICANT: JEFFREYS, Alec J.

```

SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA: US/09/041.886
APPLICATION NUMBER: US/09/041.886
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Campbell, Cathryn A.
REGISTRATION NUMBER: 31,815
REFERENCE/DOCKET NUMBER: P-LJ 2626
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 535-9001
TELEFAX: (619) 535-8949
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 3563 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
FEATURE:
NAME/KEY: CDS
LOCATION: 3..3550
US-09-041-886-20

Query Match          7.0%; Score 46; DB 4; Length 3563;
Best Local Similarity 46.5%; Pred. No. 0.0057;
Matches 139; Conservative 1; Mismatches 159; Indels 0; Gaps 0;

QY   345 AAGGAGGAATATACCAAGCAGCAGGGCGGGCCGGCCGAGCACAGCAGCAGCAG 404
Db    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY   2946 AAGGCCGGGGCTCGGGGGCCCCCGAGAGCAGACACAGCAGCAGCAGCAGCAG 3005
Db    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY   405 GAGGTGGGGGCCTCTTCCACAGTTACCAGGCGGAGCGAGCAGCAGAGGTGCCAGTCCGC 464
Db    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY   3006 GCGGTGGCCAGCGCGGGCGGGCGGCCACACAGCGGCCCTTCGAGGTACTCCAGGACCG 3065
Db    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY   465 GGAGGCCACCTCTTCCCTTGAGTGCGTGAGAGAGGGGAGAAGGAGCAGCAGAG 524
Db    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY   3066 GCCAGAGCCTTGCCCGAATCGGCCGCCACGCGGGAGGCCAACAGAGGGCCGCTCCGCC 3125
Db    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY   525 ATCCAGAGCGAGGGAAGAGCGGCGCAGAACTANGAGATGACGSGCGGAGCGCCGGGAA 584
Db    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY   3126 AGATGAGAGGGGGGTCCCAAGGCCCGGCCCGAGCGATGCCCAAGGGCCTGTGCACAC 3185
Db    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY   585 AGAAMNTCTGGGGGCTGTGGGGGTCNCCTTGACACCAAGCCGGGGTCCCAAGCCCCACCG 643
Db    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||
QY   3186 GCGCGGGCGCGGTGGCGGCATCTGGCCCGCAGGTGCCAGAGGGGCCCGCGGTCGCCG 3244
Db    ||||| ||||| ||||| ||||| ||||| ||||| ||||| ||||| |||||

RESULT 8
US-08-779-801-5
Sequence 5, Application US/08779801
Patent No. 5853995
GENERAL INFORMATION:
APPLICANT: Lee, Cheng-Chi
TITLE OR INVENTION: Large Scale Genotyping of
TITLE OF INVENTION: Diseases and a Diagnostic Test for Spinocerebellar Ataxia
NUMBER OF SEQUENCES: 5
CORRESPONDENCE ADDRESS:
ADDRESSEE: Benjamin Aaron Adler, Ph.D., J.D.
STREET: 8011 Candle Lane
CITY: Houston
STATE: Texas
COUNTRY: USA
ZIP: 77071
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: Apple Macintosh
OPERATING SYSTEM: Macintosh
SOFTWARE: Microsoft Word for Macintosh
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/779.801
FILING DATE: January 7, 1997

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? RESULT 3
? US-10-044-090-309/c
? : Sequence 309, Application US/10044090
? Patent No. US20020137081A1
? GENERAL INFORMATION:
? APPLICANT: 0194 Bandman
? TITLE OF INVENTION: GENES DIFFERENTIALLY EXPRESSED IN VASCULAR TISSUE ACTIVATION
? FILE REFERENCE: PA-0028 US
? CURRENT APPLICATION NUMBER: US/10/044,090
? CURRENT FILING DATE: 2002-01-09
? NUMBER OF SEQ ID NOS: 850
? SOFTWARE: PERL Program
? SEQ ID NO 309
? LENGTH: 2724
? TYPE: DNA
? ORGANISM: Homo sapiens
? FEATURE:
? NAME/KEY: misc-feature
? OTHER INFORMATION: Incyte ID NO. US20020137081A1 300437.18

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Sequence 1, Application US/09416384A  
Patent No. US20020081584A1  
GENERAL INFORMATION:  
APPLICANT: BLUMENFELD, Marta  
APPLICANT: BOUGELERET, Lydie  
APPLICANT: CHUMAKOV, Ilya  
APPLICANT: COHEN, Daniel  
APPLICANT: ESSIOUX, Laurent  
TITLE OF INVENTION: Genes, proteins and biallelic markers related to central...  
FILE REFERENCE: GENSEF.045AUS  
CURRENT FILING DATE: 1999-10-12  
CURRENT APPLICATION NUMBER: US/09/416,384A  
PRIOR APPLICATION NUMBER: 60/106,457  
PRIOR FILING DATE: 1999-10-30  
PRIOR APPLICATION NUMBER: 60/103,955  
PRIOR FILING DATE: 1998-10-12  
PRIOR APPLICATION NUMBER: 60/132,277  
PRIOR FILING DATE: 1999-05-03  
NUMBER OF SEQ. ID NOS: 71  
SOFTWARE: Patent.pm  
SEQ ID NO 1

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1 ORGANISM: Homo sapiens
2 FEATURE:
3 NAME/KEY: misc_feature
4 LOCATION: 1076..3075
5 OTHER INFORMATION: 5' regulatory region
6 NAME/KEY: exon
7 LOCATION: 3076..4643
8 OTHER INFORMATION: exon 1
9 NAME/KEY: allele
10 LOCATION: 4872
11 OTHER INFORMATION: 8-58-301 : polymorphic base C or T
12 NAME/KEY: allele
13 LOCATION: 3606
14 OTHER INFORMATION: insertion of AGAG in SEQID4
15 NAME/KEY: primer_bind
16 LOCATION: 4572..4587
17 OTHER INFORMATION: 8-58.pu
18 NAME/KEY: primer_bind
19 LOCATION: 4990..5005
20 OTHER INFORMATION: 8-58.jp complement
21 NAME/KEY: misc_binding
22 LOCATION: 4849..4895

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RESULT 11  
 US-09-864-761-23975/c  
 Sequence 23975, Application US/09864761  
 Patent No. US20020048763A1  
 GENERAL INFORMATION:  
 APPLICANT: Penn, Sharon G.  
 APPLICANT: Rank, David R.  
 APPLICANT: Hanzel, David K.  
 APPLICANT: Chen, Wensheng  
 TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR  
 TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY  
 FILE REFERENCE: Aeomica-X-1  
 CURRENT APPLICATION NUMBER: US/09/864,761  
 CURRENT FILING DATE: 2001-05-23  
 PRIOR APPLICATION NUMBER: US 60/180,312  
 PRIOR FILING DATE: 2000-02-04  
 PRIOR APPLICATION NUMBER: US 60/207,456  
 PRIOR FILING DATE: 2000-05-26  
 PRIOR APPLICATION NUMBER: US 09/632,366  
 PRIOR FILING DATE: 2000-08-03

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; PRIOR APPLICATION NUMBER: GB 24263.6
; PRIOR FILING DATE: 2000-10-04
; PRIOR APPLICATION NUMBER: US 60/236,359
; PRIOR FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: PCT/US01/00666
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00667
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00664
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00669
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00665
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00668
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00663
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00662
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00661
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: PCT/US01/00670
; PRIOR FILING DATE: 2001-01-30
; PRIOR APPLICATION NUMBER: US 60/234,687
; PRIOR FILING DATE: 2000-09-21
; PRIOR APPLICATION NUMBER: US 09/608,408
; PRIOR FILING DATE: 2000-06-30
; PRIOR APPLICATION NUMBER: US 09/774,203
; PRIOR FILING DATE: 2001-01-29
; NUMBER OF SEQ ID NOS: 49117
; SOFTWARE: Annonex Sequence Listing Engine vers. 1.1
; SEQ ID NO 23975
; LENGTH: 230
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: MAP TO AC008757.4
; OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 4.7
; OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 7.6
; OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 7.9
; OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 9.7
; OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 10
; OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 8.9
; OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 7
; OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 6.4
; OTHER INFORMATION: SWISSPROT HIT: P48678, EVALUATE 1.40e+00
; OTHER INFORMATION: HT HIT: M88356.1, EVALUATE 1.40e-01
; OTHER INFORMATION: EST_HUMAN HIT: A1016731.1, EVALUATE 3.00e-03
US-09-864-761-23975
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Query Match          6.8%; Score 44.8; DB 10; Length 230;
Best Local Similarity 51.2%; Pred. No. 0.0012;
Matches 103; Conservative 0; Mismatches 98; Indels 0; Gaps 0;
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QY 361 ACCAGCAGCGCGCGCGCGCGCGCGCGAGCAGCAGCAGCAGAGGTGGGGGCTCTG 420
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DB 224 ACCAGCAGTATCGCGCGCGCGCGCGCGCGCGAGCAGCAGCAGCAGGAAAAAG 165
    |||||
QY 421 CCAGGTACCGGCGCGCGCGCGCGCGCGCGAGGTCCCGCGCGAGGCCACTCTTC 480
    |||||
DB 164 ACCAGAGCGAGTTGACAGCGTCCCTCCCTCCCTCCCTCCAGGCCAGAGAGCTGC 105
    |||||
QY 481 CTGGAGTGGTGAAGAGAGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 540
    |||||
DB 104 TGGGACCTGTGTGCTGCGAGTGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 45
    |||||
QY 541 GGGGGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 561
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DB 44 AACGTGAATGAGACTAGAA 24
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RESULT 12

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US-10-097-340-188
; Sequence 188, Application US/10097340
; Publication No. US20030087250A1
; GENERAL INFORMATION:
; APPLICANT: John KONAHAN
; APPLICANT: Manjula GANAVARAPU
; APPLICANT: Sebastian HORSCH
; APPLICANT: Shudhangli KAMATKAR
; APPLICANT: Steve G. KOVATS
; APPLICANT: Rachel E. MEYERS
; APPLICANT: Michael MORRISSEY
; APPLICANT: Peter OLANDE
; APPLICANT: Ami SEN
; APPLICANT: Peter VERBY
; APPLICANT: Gordon B. MILLS
; APPLICANT: Robert C. BAST, JR.
; APPLICANT: Karen LU
; APPLICANT: Rosemarie SCHMANDT
; APPLICANT: Xumei ZHOU
; APPLICANT: Karen GLATF
; TITLE OF INVENTION: Nucleic Acid Molecules and Proteins For The Identification,
; FILE REFERENCE: MRI-030
; CURRENT APPLICATION NUMBER: US/10/097,340
; PRIOR FILING DATE: 2002-03-14
; PRIOR APPLICATION NUMBER: 60/276,025
; PRIOR FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 60/325,149
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/276,026
; PRIOR FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 60/324,967
; PRIOR FILING DATE: 2001/09/26
; PRIOR APPLICATION NUMBER: 60/311,732
; PRIOR FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: 60/325,102
; PRIOR FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: 60/323,580
; NUMBER OF SEQ ID NOS: 363
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 188
; LENGTH: 2048
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-097-340-188
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Query Match          6.7%; Score 44.2; DB 9; Length 2048;
Best Local Similarity 61.9%; Pred. No. 0.0055;
Matches 70; Conservative 0; Mismatches 43; Indels 0; Gaps 0;
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QY 361 ACCAGCAGCGCGCGCGCGCGCGCGCGAGCAGCAGCAGCAGAGGTGGGGGCTCTG 420
    |||||
DB 276 ACCGCGCCCGCGCGCGCGCGCGCGCGAGCAGCAGCAGCAGAGAGAGAGAGAG 335
    |||||
QY 421 CCAGGTACCGGCGCGCGCGCGCGCGCGCGAGGTCCCGCGCGAGGCCACTCTTC 473
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DB 336 GAGAGCTCGACCGCGCGCGCGCGAGAGACGACCGCAGCAGCGCGCGGGGCTCCC 388
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RESULT 13
US-09-373-658-30
; Sequence 30, Application US/09373658
; Publication No. US20030092900A1
; GENERAL INFORMATION:
; APPLICANT: Irueña-Artispe, Luisa
; APPLICANT: Hastings, Gregg A.
; APPLICANT: Ruben, Steven M.
; APPLICANT: Jonak, Zdenka L.
; APPLICANT: Trulli, Stephen H.
; APPLICANT: Fromwald, James A.
; APPLICANT: Terrett, Jonathan A.
; TITLE OF INVENTION: Meth1 and Meth2 Polynucleotides and Polypeptides
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      PRIOR FILING DATE: 2001-01-30
      PRIOR APPLICATION NUMBER: PCT/US01/00663
      PRIOR FILING DATE: 2001-01-30
      PRIOR APPLICATION NUMBER: PCT/US01/00662
      PRIOR FILING DATE: 2001-01-30
      PRIOR APPLICATION NUMBER: PCT/US01/00661
      PRIOR FILING DATE: 2001-01-30
      PRIOR APPLICATION NUMBER: PCT/US01/00670
      PRIOR FILING DATE: 2001-01-30
      PRIOR APPLICATION NUMBER: US 60/234,687
      PRIOR FILING DATE: 2000-09-21
      PRIOR APPLICATION NUMBER: US 09/608,408
      PRIOR FILING DATE: 2000-06-30
      PRIOR APPLICATION NUMBER: US 09/774,203
      NUMBER OF SEQ ID NOS: 49117
      SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
      SEQ ID NO 22135
      LENGTH: 210
      TYPE: DNA
      ORGANISM: Homo sapiens
      FEATURE:
        OTHER INFORMATION: MAP TO AC002044.1
        OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 2.5
        OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 2.9
        OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 2
        OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 3
        OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 2.4
        OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2.6
        OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 2.9
        OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 2.2
        OTHER INFORMATION: SWISSPROT HIT: P48678, EVALUATE 1.30e+00
        OTHER INFORMATION: NT HIT: AF24805.1, EVALUATE 5.00e-04
        OTHER INFORMATION: EST_HUMAN HIT: AW296870.1, EVALUATE 3.00e-03
      US-09-864-761-22135

Query Match          6.7%; Score 44; DB 10; Length 210;
Best Local Similarity 52.1%; Pred. No. 0.0021;
Matches 98; Conservative 0; Mismatches 90; Indels 0; Gaps 0;

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DB   15 ACGACGACTATCGGCCGCGCGCGCGCGCGCGCGCAGCAGCAGCAGCAGAGAAAG 74

QY   421 CCAGTAGCCGGCGGGGCGGCAGCAGCGAGTGCCCAAGGTTCCGCGAGGCCACTCTTC 480
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DB   75 ACCAGGAGCGCGAGTTCACGCTGCTCCCTCCCTCCCTCCCTCCGCTCAAGCCAGGAGCTGC 134

QY   481 CTGAGTGCTGTGAGAGAGGGAGGAGGAGGAGGAGGAGGAATCATGAGAGGCAA 540
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DB   133 TGGGACCTGTGGTCTGCGAGGTGGGAGGAGGAGGAGGACCCTGTGTACGACGAGGGTGGA 194

QY   541 GGC GGACA 548
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DB   195 AACGTGGA 202

RESULT 15
US-09-864-761-18923
Sequence 18923, Application US/09864761
Patent No. US2002048763A1
GENERAL INFORMATION:
APPLICANT: Penn, Sharon G.
APPLICANT: Rank, David R.
APPLICANT: Hanzel, David K.
APPLICANT: Chen, Wensheng
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL F
FILE REFERENCE: Aeonica-x-1
CURRENT APPLICATION NUMBER: US/09/864,761
CURRENT FILING DATE: 2001-05-23
PRIOR APPLICATION NUMBER: US 60/180,312
PRIOR FILING DATE: 2000-02-04

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PRIORITY APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: US 09/632,366
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: GB 24263, 6
PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00665
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00668
PRIOR FILING DATE: 2001-01-30
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PRIOR APPLICATION NUMBER: PCT/US01/00661
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00670
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: US 60/234,687
PRIOR FILING DATE: 2000-09-21
PRIOR APPLICATION NUMBER: US 09/608,408
PRIOR FILING DATE: 2000-06-30
PRIOR APPLICATION NUMBER: US 09/774,203
PRIOR FILING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 49117
SOFTWARE: Annonax Sequence Listing Engine vers. 1.1
SEQ ID NO 18923
LENGTH: 293
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: MAP TO AC009954.1
OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 47
OTHER INFORMATION: EXPRESSED IN PL474, SIGNAL = 53
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OTHER INFORMATION: EXPRESSED IN HB1100, SIGNAL = 27
OTHER INFORMATION: EXPRESSED IN HEAT, SIGNAL = 16
OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 21
OTHER INFORMATION: EXPRESSED IN HEPA, SIGNAL = 45
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 33
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 33
OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 21
OTHER INFORMATION: NE HIT: 422828.1, EVALUATE 9.00e-59
OTHER INFORMATION: SWISSPROT HIT: P53560, EVALUATE 4.00e-15
OTHER INFORMATION: EST_HUMAN HIT: AW409956.1, EVALUATE 1.00e-58
US-09-864-761-18923

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Query Match	6.78;	Score 44;	DB 10;	Length 293;
Best Local Similarity	73.78;	Pred. No. 0.0024;		
Matches	56;	Conservative	0; Mismatches	20; Indels
			0; Gaps	0;
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DQ	156 AGCGACGACGACACGACGACGACGACGACGACGACGACGACGACGACGACGAC	217		
OY	406 AGGTGGGGGCTCTGC	421		
DQ	218 AGGCAAGTGGCAGCTGC	233		

Search completed: June 13, 2003, 22:47:30  
Job time : 196.926 secs



GenCore version 5.1.6  
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OM nucleic - nucleic search, using sw model

Run on: June 13, 2003, 10:12:58 ; Search time 2.09816 Seconds  
(without alignments)  
3215.615 Million cell updates/sec

Title: US-09-581-500B-13

Perfect score: 22

Sequence: 1 atcgaacggtctgagtcact 22

Scoring table: IDENTITY NUC  
Gapop 10.0 , Gapept 1.0

Searched: 441362 segs, 15338381 residues

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents.NA.\*  
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2: /cgn2\_6/ptodata/1/ina/5b.COMB.seq:\*  
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6: /cgn2\_6/ptodata/1/ina/backfiles1.seq:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
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C 2	17.2	78.2	3084	3	US-08-335-844A-19
C 3	15.6	70.9	398	4	US-09-228-986-55
C 4	15.6	70.9	461	4	US-09-228-986-51
C 5	15.6	70.9	2447	4	US-08-387-707-12
C 6	15.6	70.9	2447	4	US-08-405-271A-12
C 7	15.2	69.1	1436	4	US-09-270-542-91
C 8	15.2	69.1	1445	4	US-09-270-542-89
C 9	15.2	69.1	1709	4	US-09-270-542-87
C 10	15.2	69.1	2436	4	US-09-270-542-85
C 11	15.2	69.1	4403765	4	US-09-103-840A-2
C 12	15.2	69.1	4411529	4	US-09-103-840A-1
C 13	14.8	80.2	4	US-09-724-864-12	
C 14	14.8	67.3	4403765	4	US-09-103-840A-2
C 15	14.8	67.3	4411529	4	US-09-103-840A-1
C 16	14.6	66.4	1248	4	US-09-134-001C-1980
C 17	14.6	66.4	1378	4	US-09-149-476-208
C 18	14.6	66.4	1473	2	US-08-541-033A-25
C 19	14.6	66.4	1473	2	US-08-828-451-25
C 20	14.6	66.4	1506	2	US-08-541-033A-23
C 21	14.6	66.4	1506	2	US-08-828-451-23
C 22	14.6	66.4	1740	4	US-08-991-944-1
C 23	14.6	66.4	1969	2	US-08-541-033A-7
C 24	14.6	66.4	1969	2	US-08-828-451-7
C 25	14.6	66.4	2096	2	US-08-541-033A-19
C 26	14.6	66.4	2096	2	US-08-828-451-19
C 27	14.6	66.4	2099	2	US-08-541-033A-3
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28	14.6	66.4	2099	2	US-08-828-451-3	Sequence 3, Appl1
29	14.6	66.4	2137	2	US-08-541-033A-18	Sequence 18, Appl
30	14.6	66.4	2137	2	US-08-828-451-18	Sequence 18, Appl
31	14.6	66.4	2140	2	US-08-541-033A-1	Sequence 1, Appl1
32	14.6	66.4	2140	2	US-08-828-451-1	Sequence 1, Appl1
33	14.6	66.4	2319	4	US-09-134-078-14	Sequence 14, Appl
34	14.6	66.4	2323	4	US-09-149-476-24	Sequence 24, Appl
35	14.2	64.5	173	6	5240838-13	Patent No. 5240838
36	14.2	64.5	173	6	5240838-12	Patent No. 5240838
37	14.2	64.5	427	1	US-07-925-920-2	Sequence 204, App
38	14.2	64.5	1083	4	US-08-858-207A-204	Sequence 5, Appl1
39	14.2	64.5	1505	4	US-09-193-377B-5	Sequence 58, Appl
40	14.2	64.5	2055	4	US-09-134-078-58	Sequence 7, Appl1
41	14.2	64.5	2688	3	US-08-458-434A-3	Sequence 72, Appl
42	14.2	64.5	2688	3	US-08-458-434A-7	Sequence 22, Appl
43	14.2	64.5	46819	4	US-09-453-702B-72	Sequence 22, Appl
44	14	63.6	31	4	US-08-664-962B-22	Sequence 22, Appl
45	14	63.6	31	4	US-09-311-743-22	Sequence 22, Appl

## ALIGNMENTS

RESULT 1  
US-08-335-844A-6/c  
; Sequence 6, Application US/08335844A  
; Patent No. 6066503  
; GENERAL INFORMATION:  
; APPLICANT: GRAHAM, MARGARET  
; APPLICANT: SMITH, TREVOR STANLEY  
; APPLICANT: MORN, EDWARD ALBERT  
; APPLICANT: KNOX, DAVID PATRICK  
; APPLICANT: OLIVER, JOANNA JANE  
; APPLICANT: NEWTON, SUSAN ELIZABETH  
; TITLE OF INVENTION: RECOMBINANT DNA MOLECULES ENCODING  
; TITLE OF INVENTION: AMINOPEPTIDASE ENZYMES AND THEIR USE IN THE PREPARATION OF  
; TITLE OF INVENTION: VACCINES AGAINST HELMINTH INFECTIONS  
; NUMBER OF SEQUENCES: 73  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Rothwell, Figg, Ernst & Kurz  
; STREET: Suite 701-E, 555 Thirteenth St., N.W  
; CITY: Washington  
; STATE: D. C.  
; COUNTRY: U.S.A.  
; ZIP: 20004  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC Compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/335,844A  
; FILING DATE: 09-JAN-1995  
; CLASSIFICATION: 424  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: GB PCT/GB93/00943  
; FILING DATE: 06-MAY-1993  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: GB 9209936  
; FILING DATE: 08-MAY-1992  
; ATTORNEY/AGENT INFORMATION:  
; NAME: WALKER, Barbara W.  
; REGISTRATION NUMBER: 35,400  
; REFERENCE/DOCKET NUMBER: 1181-223A  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: (202)783-6040  
; TELEFAX: (202)783-6031  
; INFORMATION FOR SEQ ID NO: 6:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 1689 base pairs  
; TYPE: nucleic acid  
; STRANDEDNESS: double  
; TOPOLOGY: linear

MOLECULE TYPE: DNA  
HYPOTHEICAL: NO  
ANTI-SENSE: NO  
US-08-335-844A-6

Query Match 78.2%; Score 17.2; DB 3; Length 1689;  
Best Local Similarity 86.4%; Pred. No. 5.3;  
Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 ATCGAAGGCTCTGAGTCACACT 22  
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DB 505 ATCGAAGGCTCTGAGTCACACT 484

RESULT 2  
US-08-335-844A-19/c  
Sequence 19, Application US/08335844A  
Patent No. 6066503

GENERAL INFORMATION:  
APPLICANT: GRAHAM, MARGARET  
APPLICANT: SMITH, TREVOR STANLEY  
APPLICANT: MORN, EDWARD ALBERT  
APPLICANT: KNOX, DAVID PATRICK  
APPLICANT: OLIVER, JOANNA JANE  
APPLICANT: NEWTON, SUSAN ELIZABETH  
TITLE OF INVENTION: RECOMBINANT DNA MOLECULES ENCODING  
TITLE OF INVENTION: AMINOPEPTIDASE ENZYMES AND THEIR USE IN THE PREPARATION OF  
TITLE OF INVENTION: VACCINES AGAINST HELMINTH INFECTIONS  
NUMBER OF SEQUENCES: 73  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Rothwell, Fl99, Ernst & Kurz  
STREET: Suite 701-E, 555 Thirteenth St., N.W  
CITY: Washington  
STATE: D.C.  
COUNTRY: U.S.A.  
ZIP: 20004

COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patent Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/335,844A  
FILING DATE: 09-JAN-1995  
CLASSIFICATION: 424  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: GB PCT/GB93/00943  
FILING DATE: 06-MAY-1993  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: GB 9209936  
FILING DATE: 08-MAY-1992  
ATTORNEY/AGENT INFORMATION:  
NAME: WALKER, Barbara W.  
REGISTRATION NUMBER: 35,400  
REFERENCE/DOCKET NUMBER: 1181-223A  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202)783-6040  
TELEFAX: (202)783-6031  
INFORMATION FOR SEQ ID NO: 19:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 3084 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: double  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
HYPOTHEICAL: NO  
ANTI-SENSE: NO  
US-08-335-844A-19

Query Match 78.2%; Score 17.2; DB 3; Length 3084;  
Best Local Similarity 86.4%; Pred. No. 5.8;  
Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 ATCGAAGGCTCTGAGTCACACT 22  
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DB 1429 ATCGAAGGCTCTGAGTCACACT 1408

RESULT 3  
US-09-228-986-55/c  
Sequence 55, Application US/09228986  
Patent No. 6359198

GENERAL INFORMATION:  
APPLICANT: Strabala, Timothy  
APPLICANT: Nieuwenhuizen, Niels  
TITLE OF INVENTION: Compositions Isolated from Plant Cells  
TITLE OF INVENTION: and their use in the modification of Plant Cell Signalling  
FILE REFERENCE: 11000/1020  
CURRENT APPLICATION NUMBER: US/09/228,986  
CURRENT FILING DATE: 1999-01-12  
NUMBER OF SEQ ID NOS: 130  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 55  
LENGTH: 398  
TYPE: DNA  
ORGANISM: Eucalyptus grandis  
US-09-228-986-55

Query Match 70.9%; Score 15.6; DB 4; Length 398;  
Best Local Similarity 81.8%; Pred. No. 29;  
Matches 18; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 ATCGAAGGCTCTGAGTCACACT 22  
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DB 292 ATCGAAGGCTCTGAGTCACACT 271

RESULT 4  
US-09-228-986-51/c  
Sequence 51, Application US/09228986  
Patent No. 6359198

GENERAL INFORMATION:  
APPLICANT: Strabala, Timothy  
APPLICANT: Nieuwenhuizen, Niels  
TITLE OF INVENTION: Compositions Isolated from Plant Cells  
TITLE OF INVENTION: and their use in the modification of Plant Cell Signalling  
FILE REFERENCE: 11000/1020  
CURRENT APPLICATION NUMBER: US/09/228,986  
CURRENT FILING DATE: 1999-01-12  
NUMBER OF SEQ ID NOS: 130  
SOFTWARE: FastSeq for Windows Version 3.0  
SEQ ID NO 51  
LENGTH: 461  
TYPE: DNA  
ORGANISM: Eucalyptus grandis  
US-09-228-986-51

Query Match 70.9%; Score 15.6; DB 4; Length 461;  
Best Local Similarity 81.8%; Pred. No. 29;  
Matches 19; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 ATCGAAGGCTCTGAGTCACACT 22  
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DB 237 ATCGAAGGCTCTGAGTCACACT 216

RESULT 5  
US-08-387-707-12/c  
Sequence 12, Application US/08387707  
Patent No. 6265563

GENERAL INFORMATION:  
APPLICANT: EVANS, CHRISTOPHER J.  
APPLICANT: KEITH, DUANE E.  
TITLE OF INVENTION: OPIOID RECEPTOR GENES  
NUMBER OF SEQUENCES: 18  
CORRESPONDENCE ADDRESS:

ADDRESSEE: MORRISON & FOERSTER  
STREET: 2000 Pennsylvania Avenue, N.W. Suite 5500  
CITY: Washington  
STATE: DC  
COUNTRY: USA  
ZIP: 20006-1888  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/387,707  
FILING DATE: 10-SEP-1995  
CLASSIFICATION: 536  
ATTORNEY/AGENT INFORMATION:  
NAME: MURASHIGE, KATE H.  
REGISTRATION NUMBER: 29,959  
REFERENCE/DOCKET NUMBER: 22000-20526.20  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 887-1500  
TELEFAX: (202) 887-0763  
INFORMATION FOR SEQ ID NO: 12:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2447 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-387-707-12

Query Match 70.9%; Score 15.6; DB 4; Length 2447;  
Best Local Similarity 81.8%; Pred. No. 39;  
Matches 18; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 ATCGACGGTCTGAGTCATCT 22  
DB 750 ATCGACGGTCTGAGTCATCT 729

RESULT 6  
US-08-405-271A-12/c  
Sequence 12, Application US/08405271A  
Patent No. 6432652  
GENERAL INFORMATION:  
APPLICANT: EVANS, CHRISTOPHER J.  
APPLICANT: KEITH, DUANE E.  
TITLE OF INVENTION: OPIOID RECEPTOR GENES  
NUMBER OF SEQUENCES: 25  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: MORRISON & FOERSTER  
STREET: 2000 PENNSYLVANIA AVENUE, NW, Suite 5500  
CITY: WASHINGTON  
STATE: DC  
COUNTRY: USA  
ZIP: 20006-1888  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/405,271A  
FILING DATE: 14-MAR-1995  
CLASSIFICATION: 435  
ATTORNEY/AGENT INFORMATION:  
NAME: MURASHIGE, KATE H.  
REGISTRATION NUMBER: 29,959  
REFERENCE/DOCKET NUMBER: 22000-20526.22  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202) 887-0763  
TELEFAX: (202) 887-0763  
INFORMATION FOR SEQ ID NO: 12:

SEQUENCE CHARACTERISTICS:  
LENGTH: 2447 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
US-08-405-271A-12

Query Match 70.9%; Score 15.6; DB 4; Length 2447;  
Best Local Similarity 81.8%; Pred. No. 39;  
Matches 18; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 1 ATCGACGGTCTGAGTCATCT 22  
DB 750 ATCGACGGTCTGAGTCATCT 729

RESULT 7  
US-09-270-542-91/c  
Sequence 91, Application US/09270542  
Patent No. 6322976  
GENERAL INFORMATION:  
APPLICANT: Altman, Timothy  
APPLICANT: Scott, James  
TITLE OF INVENTION: Compositions and Methods of Disease Diagnosis and  
FILE REFERENCE: 4198/78179  
CURRENT APPLICATION NUMBER: US/09/270,542  
CURRENT FILING DATE: 1999-03-17  
EARLIER APPLICATION NUMBER: 09/221,222  
EARLIER FILING DATE: 1999-12-23  
NUMBER OF SEQ ID NOS: 207  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 91  
LENGTH: 1436  
TYPE: DNA  
ORGANISM: Rattus norvegicus  
US-09-270-542-91

Query Match 69.1%; Score 15.2; DB 4; Length 1436;  
Best Local Similarity 85.0%; Pred. No. 57;  
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 TCGACGGTCTGAGTCATC 21  
DB 1104 TCGACGGTCTGAGTCATC 1085

RESULT 8  
US-09-270-542-89/c  
Sequence 89, Application US/09270542  
Patent No. 6322976  
GENERAL INFORMATION:  
APPLICANT: Altman, Timothy  
APPLICANT: Scott, James  
APPLICANT: Stanton, Lawrence  
TITLE OF INVENTION: Compositions and Methods of Disease Diagnosis and  
FILE REFERENCE: 4198/78179  
CURRENT APPLICATION NUMBER: US/09/270,542  
CURRENT FILING DATE: 1999-03-17  
EARLIER APPLICATION NUMBER: 09/221,222  
EARLIER FILING DATE: 1999-12-23  
NUMBER OF SEQ ID NOS: 207  
SOFTWARE: Patentin Ver. 2.0  
SEQ ID NO 89  
LENGTH: 1445  
TYPE: DNA  
ORGANISM: Rattus norvegicus  
US-09-270-542-89

Query Match 69.1%; Score 15.2; DB 4; Length 1445;  
Best Local Similarity 85.0%; Pred. No. 57;

Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 TCGAACGGTCTGAGTCATC 21

Db 1113 TCGATAGGTCTGAGACATC 1094

## RESULT 9

US-09-270-542-87/c  
; Sequence 87, Application US/09270542  
; Patent No. 6322976  
; GENERAL INFORMATION:  
; APPLICANT: Altman, Timothy  
; APPLICANT: Scott, James  
; APPLICANT: Stanton, Lawrence  
; TITLE OF INVENTION: Compositions and Methods of Disease Diagnosis and  
; FILE REFERENCE: 4198/78179  
; CURRENT APPLICATION NUMBER: US/09/270,542  
; EARLIER FILING DATE: 1999-03-17  
; EARLIER APPLICATION NUMBER: 09/221,222  
; NUMBER OF SEQ ID NOS: 207  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 87  
; LENGTH: 1709  
; TYPE: DNA  
; ORGANISM: Rattus norvegicus  
; FEATURE:  
; NAME/KEY: unsure  
; LOCATION: (540)..(550)  
; OTHER INFORMATION: The N at positions 540, 546, and 550 can be any  
; OTHER INFORMATION: nucleotide because the author is unsure of the  
; OTHER INFORMATION: exact sequence at these positions.  
US-09-270-542-87

Query Match 69.1%; Score 15.2; DB 4; Length 1709;

Best Local Similarity 85.0%; Pred. No. 59;  
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 TCGAACGGTCTGAGTCATC 21

Db 1113 TCGATAGGTCTGAGACATC 1094

## RESULT 10

US-09-270-542-85/c  
; Sequence 85, Application US/09270542  
; Patent No. 6322976  
; GENERAL INFORMATION:  
; APPLICANT: Altman, Timothy  
; APPLICANT: Scott, James  
; APPLICANT: Stanton, Lawrence  
; TITLE OF INVENTION: Compositions and Methods of Disease Diagnosis and  
; FILE REFERENCE: 4198/78179  
; CURRENT APPLICATION NUMBER: US/09/270,542  
; EARLIER FILING DATE: 1999-03-17  
; EARLIER APPLICATION NUMBER: 09/221,222  
; NUMBER OF SEQ ID NOS: 207  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 85  
; LENGTH: 2436  
; TYPE: DNA  
; ORGANISM: Rattus norvegicus  
US-09-270-542-85

Query Match 69.1%; Score 15.2; DB 4; Length 2436;

Best Local Similarity 85.0%; Pred. No. 62;  
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 TCGAACGGTCTGAGTCATC 21

Db 1146 TCGATAGGTCTGAGACATC 1127

## RESULT 11

US-09-103-840A-2  
; Sequence 2, Application US/09103840A  
; Patent No. 6294328  
; GENERAL INFORMATION:  
; APPLICANT: FLEISCHMAN, Robert D.  
; APPLICANT: WHITE, Owen R.  
; APPLICANT: FRASER, Claire M.  
; APPLICANT: VENTER, John C.  
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM  
; FILE REFERENCE: 24366-20007.00  
; CURRENT APPLICATION NUMBER: US/09/103,840A  
; EARLIER FILING DATE: 1998-06-24  
; NUMBER OF SEQ ID NOS: 2  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 2  
; LENGTH: 4403765  
; TYPE: DNA  
; ORGANISM: Mycobacterium tuberculosis  
; FEATURE:  
; OTHER INFORMATION: CDC 1551  
; OTHER INFORMATION: "n" bases at various positions throughout the sequence  
; OTHER INFORMATION: represent a, t, c or g  
US-09-103-840A-2

Query Match 69.1%; Score 15.2; DB 4; Length 4403765;

Best Local Similarity 85.0%; Pred. No. 66;  
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 TCGAACGGTCTGAGTCATC 21

Db 780710 TCGAACGGCTCGGGTCATC 780729

## RESULT 12

US-09-103-840A-1  
; Sequence 1, Application US/09103840A  
; Patent No. 6294328  
; GENERAL INFORMATION:  
; APPLICANT: FLEISCHMAN, Robert D.  
; APPLICANT: WHITE, Owen R.  
; APPLICANT: FRASER, Claire M.  
; APPLICANT: VENTER, John C.  
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM  
; FILE REFERENCE: 24366-20007.00  
; CURRENT APPLICATION NUMBER: US/09/103,840A  
; EARLIER FILING DATE: 1998-06-24  
; NUMBER OF SEQ ID NOS: 2  
; SOFTWARE: PatentIn Ver. 2.1  
; SEQ ID NO 1  
; LENGTH: 4411529  
; TYPE: DNA  
; ORGANISM: Mycobacterium tuberculosis  
; OTHER INFORMATION: H37Rv  
US-09-103-840A-1

Query Match 69.1%; Score 15.2; DB 4; Length 4411529;

Best Local Similarity 85.0%; Pred. No. 66;  
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 2 TCGAACGGTCTGAGTCATC 21

Db 778749 TCGAACGGCTCGGGTCATC 778768

## RESULT 13

US-09-724-864-12/c

```

; Sequence 12, Application US/09724864
; Patent No. 6380362
; GENERAL INFORMATION:
; APPLICANT: Watson, James D.
; APPLICANT: Murison, James G.
; TITLE OF INVENTION: Polynucleotides, polypeptides expressed
; TITLE OF INVENTION: by the polynucleotides and methods for their use.
; FILE REFERENCE: 11000.105001
; CURRENT APPLICATION NUMBER: US/09/724,864
; CURRENT FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: U.S. No. 6380362 60/171,678
; PRIOR FILING DATE: 1999-12-23
; NUMBER OF SEQ ID NOS: 72
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 802
; TYPE: DNA
; ORGANISM: Mouse
US-09-724-864-12

```

```

Query Match          67.3%; Score 14.8; DB 4; Length 802;
Best Local Similarity 88.9%; Pred. No. 84;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

```

```

QY      5 AACGCTCTGAGTCATCT 22
DB      399 AACAGCTCTGAGTCATCT 382

```

```

RESULT 14
US-09-103-840A-2/C
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TITLE OF INVENTION: TUBERCULOSIS
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4403765
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: CDC 1551
; OTHER INFORMATION: "n" bases at various positions throughout the sequence
; OTHER INFORMATION: represent a, t, c or g
US-09-103-840A-2

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Query Match          67.3%; Score 14.8; DB 4; Length 4403765;
Best Local Similarity 88.9%; Pred. No. 69;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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QY      1 ATCGAAGCTTCTGAGTC 18
DB      2770300 ATCGAAGCTTCTGAGTC 2770283

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RESULT 15
US-09-103-840A-1/C
; Sequence 1, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.

```

```

; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 4411529
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; OTHER INFORMATION: H37Rv
US-09-103-840A-1

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```

Query Match          67.3%; Score 14.8; DB 4; Length 4411529;
Best Local Similarity 88.9%; Pred. No. 69;
Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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QY      1 ATCGAAGCTTCTGAGTC 18
DB      2773490 ATCGAAGCTTCTGAGTC 2773473

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Search completed: June 13, 2003, 17:08:38
Job time : 41.0982 secs

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GenCore version 5.1.6  
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using SW model

Run on: June 13, 2003, 16:51:12 ; Search time 6.47007 Seconds  
(without alignments)  
4923.800 Million cell updates/sec

Title: US-09-581-500B-13

Perfect score: 22

Sequence: 1 atcgacgcttctgagtcattc 22

Scoring table: IDENTITY NMC

Gapop 10.0 , Gapext 1.0

Searched: 1029858 seqs, 724030393 residues

Total number of hits satisfying chosen parameters: 2059716

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:\*

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3: /cgn2\_6/ptodata/1/pubpna/US06\_NEW\_PUB.seq:\*

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13: /cgn2\_6/ptodata/1/pubpna/US60\_NEW\_PUB.seq:\*

14: /cgn2\_6/ptodata/1/pubpna/US60\_PUBCOMB.seq:\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	17.2	846	9	US-09-938-842A-421	Sequence 421, App
2	17.2	1689	9	US-10-100-049-6	Sequence 6, Appl
3	17.2	1889	10	US-09-775-879-20	Sequence 20, Appl
4	17.2	2925	10	US-09-775-879-22	Sequence 22, Appl
5	17.2	3084	9	US-10-00-049-19	Sequence 19, Appl
6	17.2	10174	9	US-10-171-311-82	Sequence 82, Appl
7	15.8	1293	10	US-09-974-300-30	Sequence 30, Appl
8	15.6	70.9	25	US-10-096-263B-26418	Sequence 26418, A
9	15.6	70.9	25	US-10-096-263B-101358	Sequence 101358, A
10	15.6	70.9	292	US-09-294-093B-461	Sequence 461, App
11	15.6	70.9	398	US-10-101-464A-55	Sequence 55, Appl
12	15.6	70.9	461	US-10-101-464A-51	Sequence 51, Appl
13	15.6	70.9	2313	US-09-938-842A-2640	Sequence 2640, Ap
14	15.6	70.9	2447	US-09-923-114-12	Sequence 12, Appl
15	15.6	70.9	3109	US-09-925-301-544	Sequence 544, App
16	15.6	70.9	3954	US-10-071-766-44	Sequence 44, Appl
17	15.6	70.9	1830121	US-10-329-960-1	Sequence 1, Appl
18	15.4	1650	9	US-10-037-270-975	Sequence 975, App
19	15.4	4006	10	US-09-925-300-580	Sequence 580, App

C 20	15.2	69.1	1469	10	US-09-917-800A-499	Sequence 499, App
21	15.2	69.1	2484	10	US-09-747-835A-5	Sequence 5, Appl
22	15.2	69.1	3188	10	US-09-747-835A-3	Sequence 3, Appl
23	15.2	69.1	21252	10	US-09-070-927A-94	Sequence 94, Appl
24	15.2	69.1	23934	9	US-09-764-891-7210	Sequence 7210, Ap
25	15.2	69.1	23934	9	US-10-074-095-777	Sequence 777, App
26	15.2	69.1	23934	10	US-09-764-860-777	Sequence 777, App
27	15.2	69.1	23934	10	US-09-764-877-2536	Sequence 2536, Ap
28	15.2	69.1	23934	10	US-09-764-877-2544	Sequence 2544, Ap
29	15.2	69.1	70768	9	US-10-135-122-13	Sequence 13, Appl
30	15	68.2	510	10	US-09-764-877-146	Sequence 146, App
31	15	68.2	991	10	US-09-764-877-2302	Sequence 2302, Ap
32	15	68.2	1668	10	US-09-764-877-2301	Sequence 2301, Ap
33	14.8	67.3	25	9	US-10-215-112-7474	Sequence 7474, Ap
34	14.8	67.3	444	9	US-09-918-995-33708	Sequence 33708, A
35	14.8	67.3	802	9	US-10-152-661-578	Sequence 578, App
36	14.8	67.3	802	9	US-09-865-050A-578	Sequence 155, App
37	14.8	67.3	990	9	US-09-938-842A-155	Sequence 155, App
38	14.8	67.3	98829	9	US-10-017-724-3	Sequence 3, Appl
39	14.8	67.3	536165	9	US-09-939-964-1	Sequence 1, Appl
40	14.8	67.3	1691139	9	US-10-067-514-1	Sequence 1, Appl
41	14.6	66.4	25	9	US-10-098-263B-29609	Sequence 29609, A
42	14.6	66.4	258	10	US-09-923-876-2317	Sequence 2317, App
43	14.6	66.4	422	10	US-09-924-035A-476	Sequence 476, App
44	14.6	66.4	610	9	US-09-736-457-1094	Sequence 1094, Ap
45	14.6	66.4	610	9	US-09-902-941-1094	Sequence 1094, Ap

## ALIGNMENTS

RESULT 1

US-09-938-842A-421

; Sequence 421, Application US/09938842A

; Patent No. US20020160378A1

; GENERAL INFORMATION:

; APPLICANT: Harper, Jeff

; APPLICANT: Kieps, Joel

; APPLICANT: Wang, Xun

; APPLICANT: Zhu, Tong

; TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING

; FILE REFERENCE: SCRIPT300-3

; CURRENT APPLICATION NUMBER: US/09/938, 842A

; PRIOR FILING DATE: 2001-08-24

; PRIOR APPLICATION NUMBER: US 60/227, 866

; PRIOR FILING DATE: 2000-08-24

; PRIOR APPLICATION NUMBER: US 60/264, 647

; PRIOR FILING DATE: 2001-01-16

; PRIOR APPLICATION NUMBER: US 60/300, 111

; PRIOR FILING DATE: 2001-06-22

; NUMBER OF SEQ ID NOS: 5379

; SEQ ID NO 421

; LENGTH: 846

; TYPE: DNA

; ORGANISM: Arabidopsis thaliana

US-09-938-842A-421

Query Match

Best Local Similarity 78.2%; Score 17.2; DB 9; Length 846;

Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

Qy 1 ATCGACGCTTCTGAGTCATCT 22

Db 56 ACCGATCGCTTCTGAGTCATCT 77

RESULT 2

US-10-100-049-6/c

; Sequence 6, Application US/10100049

; Publication No. US20030078398A1

; GENERAL INFORMATION:

; APPLICANT: Graham, Margaret

```
; APPLICANT: Smith, Trevor
; APPLICANT: Munn, Edward
; APPLICANT: Knox, David
; APPLICANT: Oliver, Joanna
; APPLICANT: Newton, Susan
; TITLE OF INVENTION: RECOMBINANT DNA MOLECULES ENCODING AMINOPEPTIDASE ENZYMES
; TITLE OF INVENTION: AND THEIR USE IN THE PREPARATION OF VACCINES AGAINST HELMINTH
; FILE REFERENCE: 1181-261
; CURRENT APPLICATION NUMBER: US/10/100,049
; CURRENT FILING DATE: 2002-06-12
; PRIOR APPLICATION NUMBER: US 09/129366
; PRIOR FILING DATE: 1998-08-05
; PRIOR APPLICATION NUMBER: US 08/335844
; PRIOR FILING DATE: 1995-01-09
; PRIOR APPLICATION NUMBER: PCT/GB93/00943
; PRIOR FILING DATE: 1993-05-07
; PRIOR APPLICATION NUMBER: GB 9209993.6
; PRIOR FILING DATE: 1992-05-08
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 6
; LENGTH: 1689
; TYPE: DNA
; ORGANISM: Haemonchus contortus
US-10-100-049-6
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Query Match          78.2%; Score 17.2; DB 9; Length 1689;
Best Local Similarity 86.4%; Pred. No. 28;
Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
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```
OY 1 ATCGAACGGTCTGAGTCACT 22
    ||||| ||||| |||||
Db 505 ATCGAACGGTCTGAGTCACT 484
```

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RESULT 3
US-09-775-879-20
; Sequence 20, Application US/09/75879
; Patent No. US20020068822A1
; GENERAL INFORMATION:
; APPLICANT: Choe, Sunghwa
; APPLICANT: Feldmann, Kenneth A
; TITLE OF INVENTION: DWT MUTANTS
; FILE REFERENCE: 2225-0003
; CURRENT APPLICATION NUMBER: US/09/775,879
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: 60/179,901
; PRIOR FILING DATE: 2000-02-02
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 20
; LENGTH: 1889
; TYPE: DNA
; ORGANISM: Genomic dwt7 (Arabidopsis)
US-09-775-879-20
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Query Match          78.2%; Score 17.2; DB 10; Length 1889;
Best Local Similarity 86.4%; Pred. No. 28;
Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
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```
OY 1 ATCGAACGGTCTGAGTCACT 22
    ||||| ||||| |||||
Db 198 ACCGAATCGTCTGAGTCACT 219
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RESULT 4
US-09-775-879-22
; Sequence 22, Application US/09/75879
; Patent No. US20020068822A1
; GENERAL INFORMATION:
; APPLICANT: Choe, Sunghwa
; APPLICANT: Feldmann, Kenneth A
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; TITLE OF INVENTION: DWT MUTANTS
; FILE REFERENCE: 2225-0003
; CURRENT APPLICATION NUMBER: US/09/775,879
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: 60/179,901
; PRIOR FILING DATE: 2000-02-02
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 22
; LENGTH: 2925
; TYPE: DNA
; ORGANISM: Genomic HDF7
US-09-775-879-22
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Query Match          78.2%; Score 17.2; DB 10; Length 2925;
Best Local Similarity 86.4%; Pred. No. 30;
Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
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OY 1 ATCGAACGGTCTGAGTCACT 22
    ||||| ||||| |||||
Db 1564 ACCGAATCGTCTGAGTCACT 1585
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RESULT 5
US-10-100-049-19/C
; Sequence 19, Application US/10100049
; Publication No. US20030078398A1
; GENERAL INFORMATION:
; APPLICANT: Graham, Margaret
; APPLICANT: Smith, Trevor
; APPLICANT: Munn, Edward
; APPLICANT: Knox, David
; APPLICANT: Oliver, Joanna
; APPLICANT: Newton, Susan
; TITLE OF INVENTION: RECOMBINANT DNA MOLECULES ENCODING AMINOPEPTIDASE ENZYMES
; TITLE OF INVENTION: AND THEIR USE IN THE PREPARATION OF VACCINES AGAINST HELMINTH
; FILE REFERENCE: 1181-261
; CURRENT APPLICATION NUMBER: US/10/100,049
; CURRENT FILING DATE: 2002-06-12
; PRIOR APPLICATION NUMBER: US 09/129366
; PRIOR FILING DATE: 1998-08-05
; PRIOR APPLICATION NUMBER: US 08/335844
; PRIOR FILING DATE: 1995-01-09
; PRIOR APPLICATION NUMBER: PCT/GB93/00943
; PRIOR FILING DATE: 1993-05-07
; PRIOR APPLICATION NUMBER: GB 9209993.6
; PRIOR FILING DATE: 1992-05-08
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 19
; LENGTH: 3084
; TYPE: DNA
; ORGANISM: Haemonchus contortus
US-10-100-049-19
```

```
Query Match          78.2%; Score 17.2; DB 9; Length 3084;
Best Local Similarity 86.4%; Pred. No. 30;
Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
OY 1 ATCGAACGGTCTGAGTCACT 22
    ||||| ||||| |||||
Db 1429 ATCGAACGGTCTGAGTCACT 1408
```

```
RESULT 6
US-10-171-311-82
; Sequence 82, Application US/10171311
; Publication No. US20030087270A1
; GENERAL INFORMATION:
; APPLICANT: Schlegel, Robert
; APPLICANT: Chen, Yan
; APPLICANT: Zhao, Xumei
```

```

; APPLICANT: Monahan, John
; APPLICANT: Kametkar, Shubhangi
; APPLICANT: Glatz, Karen
; APPLICANT: Gannavarapu, Manjula
; APPLICANT: Hoerish, Sebastian
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; TITLE OF INVENTION: IDENTIFICATION, ASSESSMENT, PREVENTION, AND THERAPY
; TITLE OF INVENTION: OF CERVICAL CANCER
; FILE REFERENCE: KR1-035
; CURRENT APPLICATION NUMBER: US/10/171,311
; CURRENT FILING DATE: 2002-06-12
; PRIOR APPLICATION NUMBER: US 60/298,159
; PRIOR FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: US 60/298,155
; PRIOR FILING DATE: 2001-06-13
; PRIOR APPLICATION NUMBER: US 60/335,936
; PRIOR FILING DATE: 2001-11-14
; NUMBER OF SEQ ID NOS: 238
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 82
; LENGTH: 10174
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-171-311-82

Query Match          78.2%; Score 17.2; DB 9; Length 10174;
Best Local Similarity 86.4%; Pred. No. 36;
Matches 19; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
QY      1 ATCGACGGTCTGAGTCATCT 22
Db      2394 ACCGACAGTCTGAGTCATCT 2415
```

```

RESULT 7
US-09-974-300-30
; Sequence 30, Application US/09974300
; Patent No. US2002014672A1
; GENERAL INFORMATION:
; APPLICANT: Berka, Randy M.
; APPLICANT: Clausen, ID Groth
; TITLE OF INVENTION: Methods For Monitoring Multiple Gene
; FILE REFERENCE: 10085.500-US
; CURRENT APPLICATION NUMBER: US/09/974,300
; CURRENT FILING DATE: 2001-10-05
; PRIOR APPLICATION NUMBER: 09/680,598
; PRIOR FILING DATE: 2000-10-06
; PRIOR APPLICATION NUMBER: 60/279,526
; PRIOR FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 8481
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 30
; LENGTH: 1293
; TYPE: DNA
; ORGANISM: Bacillus licheniformis
US-09-974-300-30
```

```

Query Match          71.8%; Score 15.8; DB 10; Length 1293;
Best Local Similarity 89.5%; Pred. No. 14+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1 ATCGACGGTCTGAGTCATCA 19
Db      369 ATCGACGGTCTGAGTCATCA 387
```

```

RESULT 8
US-10-098-263B-26418
; Sequence 26418, Application US/10098263B
; Publication No. US20030104410A1
; GENERAL INFORMATION:
; APPLICANT: Mittman, Michael
```

```

; TITLE OF INVENTION: Human Microarray
; FILE REFERENCE: 3118.1
; CURRENT APPLICATION NUMBER: US/10/098,263B
; CURRENT FILING DATE: 2003-01-08
; PRIOR APPLICATION NUMBER: 60/276,759
; PRIOR FILING DATE: 2001-03-16
; NUMBER OF SEQ ID NOS: 131066
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 26418
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-098-263B-26418
```

```

Query Match          70.9%; Score 15.6; DB 9; Length 25;
Best Local Similarity 81.8%; Pred. No. 1e+02;
Matches 18; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
```

```
QY      1 ATCGACGGTCTGAGTCATCT 22
Db      1 ATGGAACGGTATGACTCTCT 22
```

```

RESULT 9
US-10-098-263B-101358/C
; Sequence 101358, Application US/10098263B
; Publication No. US20030104410A1
; GENERAL INFORMATION:
; APPLICANT: Mittman, Michael
; TITLE OF INVENTION: Human Microarray
; FILE REFERENCE: 3118.1
; CURRENT APPLICATION NUMBER: US/10/098,263B
; CURRENT FILING DATE: 2003-01-08
; PRIOR APPLICATION NUMBER: 60/276,759
; PRIOR FILING DATE: 2001-03-16
; NUMBER OF SEQ ID NOS: 131066
; SOFTWARE: Microarray Probe Sequence Listing Generator V 1.1
; SEQ ID NO 101358
; LENGTH: 25
; TYPE: DNA
; ORGANISM: Homo sapien
US-10-098-263B-101358
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```

Query Match          70.9%; Score 15.6; DB 9; Length 25;
Best Local Similarity 81.8%; Pred. No. 1e+02;
Matches 18; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
```

```
QY      1 ATCGACGGTCTGAGTCATCT 22
Db      22 ATGGAACGGTATGACTCTCT 1
```

```

RESULT 10
US-09-294-093B-461/C
; Sequence 461, Application US/09294093B
; Patent No. US20010051335A1
; GENERAL INFORMATION:
; APPLICANT: Lalgudi, Raghunath, V.
; APPLICANT: Sherman, Bradley K.
; APPLICANT: Ito, Laura, Y.
; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN TASSEL
; FILE REFERENCE: PL-0009 US
; CURRENT APPLICATION NUMBER: US/09/294,093B
; CURRENT FILING DATE: 1999-04-16
; PRIOR APPLICATION NUMBER: 60/082,567
; PRIOR FILING DATE: April 21, 1998
; NUMBER OF SEQ ID NOS: 6207
; SOFTWARE: PERL Program
; SEQ ID NO 461
; LENGTH: 292
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
```



NAME/KEY: misc feature  
 OTHER INFORMATION: Incyte ID No. US20010051335A1 700342780H1  
 NAME/KEY: unsure  
 LOCATION: 266-267  
 OTHER INFORMATION: a, t, c, g, or other  
 US-09-294-093B-461

Query Match 70.9%; Score 15.6; DB 9; Length 292;  
 Best Local Similarity 81.8%; Pred. No. 1.4e+02;  
 Matches 18; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 1 ATCGAAGGCTCTGAGTCACCT 22  
 ||| ||||| ||||| |||||  
 Db 254 ATCAAAGCGCTTGAGTACCT 233

RESULT 11  
 US-10-101-464A-55/c  
 Sequence 55, Application US/10101464A  
 Publication No. US20030046728A1  
 GENERAL INFORMATION:  
 APPLICANT: Strabala, Timothy  
 APPLICANT: Neuenhuizen, Nicolaas  
 APPLICANT: Higgins, Colleen M.  
 TITLE OF INVENTION: Compositions isolated from Plant Cells  
 TITLE OF INVENTION: and their use in the modification of Plant Cell Signaling  
 FILE REFERENCE: 11000.1020c2  
 CURRENT APPLICATION NUMBER: US/10/101,464A  
 PRIOR FILING DATE: 2002-03-18  
 PRIOR APPLICATION NUMBER: 09/704,302  
 PRIOR FILING DATE: 2000-11-01  
 PRIOR APPLICATION NUMBER: 09/228,986  
 PRIOR FILING DATE: 1999-01-12  
 PRIOR APPLICATION NUMBER: 60/162,866  
 PRIOR FILING DATE: 1999-11-01  
 PRIOR APPLICATION NUMBER: PCT/US00/00724  
 NUMBER OF SEQ ID NOS: 989  
 SOFTWARE: FastSeq for Windows Version 4.0  
 SEQ ID NO 55  
 LENGTH: 398  
 TYPE: DNA  
 ORGANISM: Eucalyptus grandis  
 US-10-101-464A-55

Query Match 70.9%; Score 15.6; DB 9; Length 398;  
 Best Local Similarity 81.8%; Pred. No. 1.5e+02;  
 Matches 18; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 1 ATCGAAGGCTCTGAGTCACCT 22  
 ||||| || ||||| ||||| ||  
 Db 292 ATCGAAGGCTCTGAGTCACCT 271

RESULT 12  
 US-10-101-464A-51/c  
 Sequence 51, Application US/10101464A  
 Publication No. US20030046728A1  
 GENERAL INFORMATION:  
 APPLICANT: Strabala, Timothy  
 APPLICANT: Neuenhuizen, Nicolaas  
 APPLICANT: Higgins, Colleen M.  
 TITLE OF INVENTION: Compositions isolated from Plant Cells  
 TITLE OF INVENTION: and their use in the modification of Plant Cell Signaling  
 FILE REFERENCE: 11000.1020c2  
 CURRENT APPLICATION NUMBER: US/10/101,464A  
 PRIOR FILING DATE: 2002-03-18  
 PRIOR APPLICATION NUMBER: 09/704,302  
 PRIOR FILING DATE: 2000-11-01  
 PRIOR APPLICATION NUMBER: 09/228,986  
 PRIOR FILING DATE: 1999-01-12  
 PRIOR APPLICATION NUMBER: 60/162,866  
 PRIOR FILING DATE: 1999-11-01

PRIOR APPLICATION NUMBER: PCT/US00/00724  
 PRIOR FILING DATE: 2000-01-11  
 NUMBER OF SEQ ID NOS: 989  
 SOFTWARE: FastSeq for Windows Version 4.0  
 SEQ ID NO 51  
 LENGTH: 461  
 TYPE: DNA  
 ORGANISM: Eucalyptus grandis  
 US-10-101-464A-51

Query Match 70.9%; Score 15.6; DB 9; Length 461;  
 Best Local Similarity 81.8%; Pred. No. 1.5e+02;  
 Matches 18; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 1 ATCGAAGGCTCTGAGTCACCT 22  
 ||||| || ||||| ||||| ||  
 Db 237 ATCGAAGGCTCTGAGTCACCT 216

RESULT 13  
 US-09-938-842A-2640  
 Sequence 2640, Application US/09938842A  
 Patent No. US20020160378A1  
 GENERAL INFORMATION:  
 APPLICANT: Harper, Jeff  
 APPLICANT: Krebs, Joel  
 APPLICANT: Wang, Xun  
 APPLICANT: Zhu, Tony  
 TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING  
 TITLE OF INVENTION: SAME, AND METHODS OF USE  
 FILE REFERENCE: SCRI3300-3  
 CURRENT APPLICATION NUMBER: US/09/938,842A  
 PRIOR FILING DATE: 2001-08-24  
 PRIOR APPLICATION NUMBER: US 60/227,866  
 PRIOR FILING DATE: 2000-08-24  
 PRIOR APPLICATION NUMBER: US 60/264,647  
 PRIOR FILING DATE: 2001-01-16  
 PRIOR APPLICATION NUMBER: US 60/300,111  
 PRIOR FILING DATE: 2001-06-22  
 NUMBER OF SEQ ID NOS: 5379  
 SEQ ID NO 2640  
 LENGTH: 2313  
 TYPE: DNA  
 ORGANISM: Arabidopsis thaliana  
 US-09-938-842A-2640

Query Match 70.9%; Score 15.6; DB 9; Length 2313;  
 Best Local Similarity 81.8%; Pred. No. 2e+02;  
 Matches 18; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

OY 1 ATCGAAGGCTCTGAGTCACCT 22  
 || || ||||| ||||| |||||  
 Db 411 ATCAAAGGCTCTGAGTCACCT 432

RESULT 14  
 US-09-823-114-12/c  
 Sequence 12, Application US/09823114  
 Patent No. US20020061554A1  
 GENERAL INFORMATION:  
 APPLICANT: EVANS, CHRISTOPHER J.  
 APPLICANT: KEITH, DUANE E.  
 TITLE OF INVENTION: OPIOID RECEPTOR GENES  
 NUMBER OF SEQUENCES: 25  
 CORRESPONDENCE ADDRESS:  
 ADDRESSER: MORRISON & POENSTER  
 STREET: 2000 PENNSYLVANIA AVENUE, NW, Suite 5500  
 CITY: WASHINGTON  
 STATE: DC  
 COUNTRY: USA  
 ZIP: 20006-1888  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk

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;
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/823,114
; FILING DATE: 29-Mar-2001
; CLASSIFICATION: <Unknown>
; PRIORITY INFORMATION:
; APPLICATION NUMBER: 09/148,351
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: MURASHIGE, KATE H.
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 22000-20526.22
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (202) 887-1500
; TELEFAX: (202) 887-0763
; TELEX: 90-4030 MRSNFORSMH
;
; INFORMATION FOR SEQ ID NO: 12:
;
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2447 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
; SEQUENCE DESCRIPTION: SEQ ID NO: 12:
US-09-823-114-12

```

```

Query Match          70.9%; Score 15.6; DB 10; Length 2447;
Best Local Similarity 81.8%; Pred. No. 2e+02;
Matches 18; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY      1 ATCGACGGTTCGTGACTCATCT 22
      ||| | ||||| |||||
Db      750 ATCAAGTGTTCGTGACTCATCT 729

```

```

RESULT 15
US-09-925-301-544
; Sequence 544, Application US/09925301
; Patent No. US20020052308A1
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: Nucleic Acids, Proteins and Antipodies
; FILE REFERENCE: PA106
; CURRENT APPLICATION NUMBER: US/09/925,301
; CURRENT FILING DATE: 2001-08-10
; PRIOR APPLICATION NUMBER: PCT/US00/05882
; PRIOR FILING DATE: 2000-03-08
; PRIOR APPLICATION NUMBER: 60/124,270
; PRIOR FILING DATE: 1999-03-12
; NUMBER OF SEQ ID NOS: 1694
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 544
; LENGTH: 3109
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1011)
; OTHER INFORMATION: n equals a,t,g, or c
US-09-925-301-544

```

```

Query Match          70.9%; Score 15.6; DB 10; Length 3109;
Best Local Similarity 81.8%; Pred. No. 2.1e+02;
Matches 18; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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```

QY      1 ATCGACGGTTCGTGACTCATCT 22
      ||||| ||||| |||||
Db      386 ATCGACGGTTCGTGACTCATCT 407

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Search completed: June 13, 2003, 22:47:35  
Job time : 11.4701 secs